examination of inductive cues and substrate selection
M. Slattery (Birmingham, AL and Moss Landing, CA, USA) 143
Cryopreservation of summer whiting (*Sillago ciliata*) spermatozoa
J.A. Young, M.F. Capra (Brisbane, Qld., Australia) and A.W. Blackshaw (St. Lucia, Qld., Australia) 155
Temperature and photoperiod effects on ovarian maturation and egg laying of the crayfish, *Orconectes limosus*
P. Dubé and B. Portelance (Québec, Que., Canada) 161
Advancement and synchronization of ovulation in Atlantic salmon (*Salmo salar* L.) following injections of LHRH analogue
G.L. Taranger, S.O. Stefansson and T. Hansen (Matredal, Norway) 169
Stimulation of ovulation and steroid secretion by LHRHa injection in the sea bass (*Dicentrarchus labrax*): effect of time of day
J.M.R. Alvariño (Madrid, Spain), S. Zanuy, F. Prat, M. Carrillo and E. Mañanos (Castellon, Spain) 177

Short Communication
Protection against velvet disease in goldfish recovered from ichthyophthiriasis
Y.M. Sin, K.H. Ling and T.J. Lam (Singapore) 187

Technical Paper
Improved method for shipping *Tridacna gigas* seed
R.D. Braley (Townsville, Qld., Australia) 193

VOL. 102 NO. 3 15 MARCH 1992

Nutrition
Oligochaetes (Tubificidae and Enchytraeidae) as food in fish rearing: a review and preliminary tests
V. Bouguenec (Baraqueville and Toulouse, France) 201
Fatty acid composition of coastal and inland *Artemia* sp. populations from Spain
J.C. Navarro (Stirling, UK), F. Amat (Castellón, Spain) and J.R. Sargent (Stirling, UK) 219
Indoor nursery cultivation of juvenile bivalve molluscs using diets of dried algae
I. Laing and P.F. Millican (Conwy, UK) 231
Nitrogen and phosphorus excretion from noble crayfish, *Astacus astacus* L., in relation to food type and temperature
G. Kristiansen and D.O. Hessen (Oslo, Norway) 245
Susceptibility of carp and tilapia α-amylase to purified wheat amylase inhibitor
M. Natarajan (Izatnagar, India), B. Ross and L.G. Ross (Stirling, UK) 265

Physiology and Endocrinology
Brackishwater tolerance of some species and hybrids of *Oreochromis* for use in lagoon aquaculture (Ivory Coast)
T. Doudet (Abidjan, Ivory Coast) 275
The effect of salinity on the induction of spawning and fertilization in the striped mullet, *Mugil cephalus*
C.-S. Lee, C.S. Tamaru, C.D. Kelley, A. Moriwake and G.T. Miyamoto (Honolulu, HI, USA) 289

VOL. 102 NO.4 1 APRIL 1992

Husbandry and Management

Pharmacokinetics of nalidixic acid in cultured rainbow trout and amago salmon
K. Uno (Aichi, Japan), M. Kato, T. Aoki (Tsu, Mie, Japan), S.S. Kubota (Tokyo, Japan) and R. Ueno (Tsu, Mie, Japan) 297

Nutrition

Dietary requirement of milkfish (*Chanos chanos* Forsskal) juveniles for total aromatic amino acids
I.G. Borlongan (Iloilo City, Philippines) 309

Studies on the improvement of the first feeding on a dry diet for *Coregonus lavaretus* L. larvae
R. Rojas Beltran and A. Champigneulle (Thonon les Bains, France) 319

Pigmentation of kuruma prawn, *Penaeus japonicus* Bate, by various pigment sources and levels and feeding regimes
Y.-H. Chien and S.-C. Jeng (Keelung, Taiwan) 333

Thermocycle effect on the growth rate of redtail shrimp *Penaeus penicillatus* (Alock)
S. Miao (Keelung, Taiwan) 347

Gonad development of *Placuna placenta* Linnaeus fed *Isochrysis galbana* Parke, *Tetraselmis tetrahele* (G.S. West) Butch, or their combination
W.G. Gallardo, Ma.T.R. de Castro, R.T. Buensuceso, C.C. Espegadera and C.C. Baylon (Iloilo, Philippines) 357

Isolation of clones of *Isochrysis galbana* rich in eicosapentaenoic acid
D. López Alonso, E. Molina Grima, J.A. Sánchez Pérez, J.L. García Sánchez and F. García Camacho (Almeria, Spain) 363

Physiology and Endocrinology

Histological study of the organogenesis of the digestive system and swim bladder of the Dover sole, *Solea solea* (Linnaeus 1758)
M. Boulhic and J. Gabaudan (Plouzané, France) 373

Book Reviews

Seaweed symposium 397
Large lakes 398
Guide to commercial fish species 399

Announcements 401

Author Index 402

Contents of *Aquaculture*, Volume 102 406